

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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MADE AND SOLVED BY HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

Of the following situations, which one is impossible?

Answer (Please select your correct option)

- A body having velocity east and acceleration east
- A body having velocity east and acceleration west
- A body having constant velocity and variable acceleration
- A body having constant acceleration and variable velocity

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A plane traveling north at 200m/s turns and then travels south at 200m/s. The change in its velocity is:

Answer (Please select your correct option)

400m/s north

400m/s south

zero

200m/s south

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

The inertia of a body tends to cause the body to:

Answer (Please select your correct option)

speed up

slow down

resist any change in its motion

fall toward Earth

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

A car travels east at constant velocity. The net force on the car is:

Answer (Please select your correct option)

east

west

down

zero

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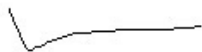
Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

A ball is thrown upward into the air with a speed that is greater than terminal speed. It lands at the place where it was thrown. During its flight the force of air resistance is the greatest:

Answer (Please select your correct option)

just after it is thrown



halfway up

at the top of its trajectory

halfway down

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

An object moves in a circle at constant speed. The work done by the centripetal force is zero because:

Answer (Please select your correct option)

- the displacement for each revolution is zero
- the average force for each revolution is zero
- there is no friction
- the centripetal force is perpendicular to the velocity

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

A 6.0-kg block is released from rest 80m above the ground. When it has fallen 60m its kinetic energy is approximately.

Answer (Please select your correct option)

4800 J



3500 J



1200 J



120 J



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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

The momentum of an object at a given instant is independent of its:

Answer (Please select your correct option)

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acceleration

mass

speed

inertia

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

The center of mass of the system consisting of Earth, the Sun, and the planet Mars is:

Answer (Please select your correct option)

- closer to Earth than to either of the other bodies
- closer to the Sun than to either of the other bodies
- closer to Mars than to either of the other bodies
- at the geometric center of the triangle formed by the three bodies

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

A net torque applied to a rigid object always tends to produce:

Answer (Please select your correct option)

linear acceleration

rotational equilibrium

angular acceleration

rotational inertia

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

In simple harmonic motion, the restoring force must be proportional to the:

Answer (Please select your correct option)

amplitude

frequency

velocity

displacement

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

A particle oscillating in simple harmonic motion is:

Answer (Please select your correct option)

- in equilibrium at the ends of its path because its velocity is zero there
- in equilibrium at the center of its path because the acceleration is zero there
- never in equilibrium because it is in motion
- never in equilibrium because there is always a force

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

A 160-N child sits on a light swing and is pulled back and held with a horizontal force of 100 N. The magnitude of the tension force of each of the two supporting ropes is:

Answer (Please select your correct option)

60N

94N

120N

190N

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Young's modulus is a proportionality constant that relates the force per unit area applied perpendicularly at the surface of an object to:

Answer (Please select your correct option)

- the shear
- the fractional change in volume
- the fractional change in length
- the pressure

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following five statements, concerning the upper surface pressure of a liquid, is FALSE?

Answer (Please select your correct option)

- It is independent of the surface area
- It is the same for all points on that surface
- It would not increase if the liquid depth were increased
- It would increase if the liquid density were increased

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Whenever an object strikes a stationary object of equal mass:

Answer (Please select your correct option)

- the two objects cannot stick together
- the collision must be elastic
- momentum is not necessarily conserved
- none of these

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following properties of a sound wave determine its "pitch"?

Answer (Please select your correct option)

- Amplitude
- Distance from source to detector
- Frequency
- Phase

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

In the MKS system, charge is measured in

Answer (Please select your correct option)

Farad

Coulomb

Henry

Tesla

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Like charges repel, unlike charges attract. This depends upon the

Answer (Please select your correct option)

strength of the two charges and the distance between them.



strength of the two charges

distance between the two charges

none of these, given statement is irrelevant

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

What does it mean to say that angular momentum is conserved?

Answer ([Please click here to Add Answer](#))

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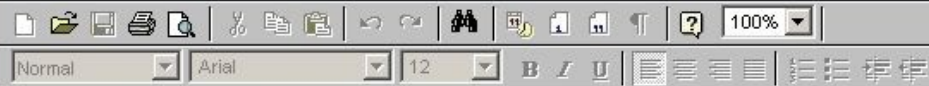
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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Does Archimedes' principle tell us that, if an immersed object displaces liquid weighing 10 N, the buoyant force on the object is 10 N?

Answer ([Please click here to Add Answer](#))



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- (a) What angle in radians is subtended by an arc 1.50 m in length on the circumference of a circle 2.50 m? What is this angle in degrees?
- (b) An arc 14.0 cm in length on the circumference of a circle subtends an angle of 128° . What is the radius of the circle?
- (c) The angle between two radii of a circle with radius 1.50 m is 0.700 **rad**. What length of arc is intercepted on the circumference of the circle by the two radii?

Answer (Please [click here](#) to Add Answer)



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Match the situation in column-A with the categories of stress in column-B.

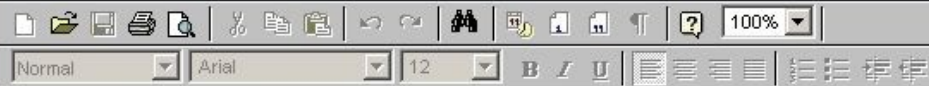
COLUMN-A

(a) A cable being stretched by forces acting at its end.

COLUMN-B

(a) Bulk stress

Answer ([Please click here to Add Answer](#))



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Rank an automobile dashboard, seatbelt, and airbag in terms of (a) the impulse and (b) the average force they deliver to a front-seat passenger during a collision, from greatest to least.

Answer ([Please click here to Add Answer](#))



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

- (a) A 20 dB sound is twice as intense as a 10 dB sound, explain it.
- (b) The degree of Doppler shift experienced by a listener is independent of how far the listener is from a moving sound source. Is it true or wrong explain it?

Answer ([Please click here to Add Answer](#))



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